FANUC SYSTEM P

FAPT TRACER

OPERATOR'S MANUAL
(SUPPLEMENTARY MANUAL FOR ADDITIONAL FUNCTIONS)

CONTENTS

1. OUTLINE
2. AUXILIARY FUNCTIONS FOR EXECUTION
3. INCREMENTAL/ABSOLUTE DESIGNATION OF CIRCULAR CENTER COMMAND VALUE
4. SETTING OF M3-DIGIT
5. SETTING OF G3-DIGIT
6. INTERCHANGEABILITY OF MTF

1. OUTLINE

This manual describes the new functions of the FAPT TRACER of the FANUC SYSTEM P.

The new functions include the following.

- New functions related with floppy disk and program file.
- Automatic EOR adding function for NC data input/output.
- Addition of setting of G3 and M3-digit.
- Increment/absolute designation of circular center command value for circular interpolation.
- Addition of auxiliary functions for execution.

For the new functions regarding the floppy disk and program file, refer to "Operator's Manual for Floppy Disk and Program File."

For the automatic EOR adding function for NC data input/output, refer to the "Operator's Manual for Automatic EOR Adding Function."

The functions described in this manual can be used on the following system.

System name	Drawing No.	Edition No.
FAPT TRACER	A08B-0033-H620 #E	Edition D or later

2. AUXILIARY FUNCTIONS FOR EXECUTION

Depress the key RO when the initial picture is displayed, the selection menu is displayed for selecting either to execute the FAPT from the beginning or to execute the continued part of the previous one.

In this picture, the execution method is designated. At this time, the auxiliary function can be designated. When using the auxiliary function, designate the parameter for auxiliary function designation after the execution designating numeral with a separation by comma (,). A plural number of parameters can be designated simultaneously.

The auxiliary functions include those listed in the following table.

Parameter	Meaning
NM	Does not store the input data in memory. Used when a long NC data is to be displayed in graphics.
KG	Executes without erasing tool path displayed on the CRT. Used to make an overlapped drawing of tool path.
OT	Outputs the input data to an external device. Used for data transfer. The output equipment is designated by the F key.
NE	Does not make input data syntax check nor drawing of tool path. Does not ignor the data surrounded by control out/in. Used for data transfer.

(Example)

1, OT [NL] ..... Outputs to outside, executing the input data.

1, KG [NL] ..... Executes without erasing the previous tool path.

1, NM, NE, OT [NL] ... Does not execute the input data, nor store it in the memory, but outputs it to the external device as is.

3. INCREMENTAL/ABSOLUTE DESIGNATION OF CIRCULAR CENTER COMMAND VALUE

It has become possible to designate incremental/absolute of circular center command value for circular interpolation command.

The designation is made by MTF 2, 4.

Additional Specifications of MTF 2, 4.

<table>
<tr><th>Item No.</th><th>Contents</th><th>Type</th></tr>
<tr><td>2, 4</td><td>Designate the following function code depending on the NC equipment specifications.
<table>
<tr><th colspan="2">Specification No.</th><th>Contents</th><th>Function code</th></tr>
<tr><td rowspan="2">5</td><td>a</td><td>Out of the auxiliary axes of circular interpolation command, the circular center command value is treated as incremental</td><td>0</td></tr>
<tr><td>b</td><td>Treated as absolute in the same case as above.</td><td>16</td></tr>
</table>
The set value is equivalent to the sum of the function codes concerned.
(Example) If the specification has its numbers as 1-b, 2-b, 3-a, 4-b, 5-b,
1+2+0+8+16=27 $\xrightarrow{\text{sexadecimal number}}$ 1B
and '1B' is input as the result.
(① If the sum results in a figure larger than 16, ② is executed with a value which is made by deducting 16 from the result, and 10 is added to make the set value.
② If the sum results in a figure larger than 10, A - F are taken as set values for 10 - 15 respectively.)</td><td>2H</td></tr>
</table>

4. SETTING OF M3-DIGIT

The setting of the M3-digit is made by MTF17, 100. The set value means the same as MTF17, 00 - 99.

5. SETTING OF G3-DIGIT

The setting of the G3-digit is made by MTF18, 100. The set value means the same as MTF 18, 00 - 99.

6. INTERCHANGEABILITY OF MTF

Since the MTF contents have been modified, the output data as 'MTF OUT' in the system of the edition C or earlier cannot be input as 'MFT IN' in the system of the edition D or later. Likewise, the MTF of a system of the edition D or later cannot be input to a system of the edition C or earlier. Even if input is performed the MTF contents cannot be set currently.

When setting in the same way as for the system of the edition C or earlier, set with 'MTF ALT'.